



>>Entry Name: Sodium bromite

Synonym(s): Sodium bromate(III). Bromic(III) acid, sodium salt. Bromous acid, sodium salt, 8Cl

CAS Registry Number: 7486-26-2

NaBrO₂

Molecular Formula: BrNaO₂

Molecular Weight: 134.892

Accurate Mass: 133.917933

Percentage Composition: Br 59.24%; Na 17.04%; O 23.72%

Use/Importance: Desizing agent. Selective reagent for the oxidation of sulfides and alcohols

Physical Description: Unstable, readily dec. releasing O₂. Partially stabilised by cocrystallisation with NaOH

Solubility: V. sol. H₂O (28 g per 100 cm³ at 0°; 91 g per 100 cm³ at 100°); insol. EtOH

>>Derivative: Trihydrate

Molecular Formula: BrH₆NaO₅

Molecular Weight: 188.938

Accurate Mass: 187.949628

Percentage Composition: Br 42.29%; H 3.20%; Na 12.17%; O 42.34%

Source/Synthesis: Cryst. from aq. 2M NaOH soln. containing NaBrO₂

Use/Importance: Commercially available. Mild oxidising agent

Physical Description: Colourless cryst.

Other Data: Dehydrates at r.t. *in vacuo* to give anhyd. NaBrO₂

References:

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